

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19603/3810 (CRF D-2693)	O I P E MAR 11 2003 U.S. PATENT & TRADEMARK OFFICE		SERIAL NO. 10/072,404
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Paul H. Steen			
(use several sheets if necessary)		FILING DATE February 8, 2002	GROUP ART UNIT 1722		
(PTO-1449)					

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
UT	1	49,053	07/25/1865	Bessemer			
UT	2	4,142,571	03/06/1979	Narasimhan			
UT	3	4,268,564	05/19/1981	Narasimhan			
UT	4	4,705,095	11/10/1987	Gaspar			
UT	5	6,099,913	8/8/2000	Clarke et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

UT	6	Kavesh, "Principles of Fabrication," Gilman, eds., <u>Metallic Glasses</u> , ASM, Metals Park, pp. 36-73 (1978)
	7	Jones, "Rapid Solidification of Metals and Alloys," Gilman et al. (eds.), <u>Metallic Glasses</u> , Institution of Metallurgists, London, pp. 1-83 (1982)
	8	Jones, "Review: The Status of Rapid Solidification of Alloys in Research and Application," <u>Journal of Materials Science</u> , 19:1043-1076 (1984)
	9	Beldon, "Commercializing A New Product," <u>ChE Progress</u> , pp. 27-29 (1985)
	10	Birat et al., "Near Net Shape Continuous Casting Of Flat Products At IRSID," <u>La Revue de Métallurgie - CIT</u> 86:919-930 (1989)
	11	Anestiev, "An Analysis of the Dependence Between the Ribbon Dimensions and the Technological Parameters for the Planar Flow Casting Method," <u>Materials of Science and Engineering</u> , A131:115-121 (1991)
UT	12	Carpenter et al., "Fluid Mechanics An Heat Transfer Of Planar-Flow Melt Spinning," <u>Modeling Of Casting, Welding and Advanced Solidification Processes V</u> , Rappaz et al. (eds.), Warrendale, PA:TMS, pp. 621-627 (1991)

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DATE CONSIDERED

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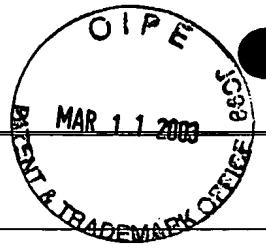
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

u	13	Gong et al., "Numerical Modelling Of The Planar Flow Melt-Spinning Process And Experimental Investigation Of Its Solidification Puddle Dynamics," <u>International Journal of Rapid Solidification</u> . 6:1-28 (1991)
	14	Wang et al., "Modelling Of Rapid Solidification By Melt Spinning: Effect Of Heat Transfer In The Cooling Substrate," <u>Materials Science and Engineering</u> , A136:85-97 (1991)
	15	Birat, "Direct Casting of Thin Strip Steel," <u>Endeavour, New Series</u> , 16:110-116 (1992)
	16	Carpenter et al., "Plannar-Flow Spin-Casting Of Molten Metals: Process Behavior," <u>Journal of Materials Science</u> , 27:215-225 (1992)
	17	Prasner, et al., "An Experimental Study of Process Behavior in Planar Flow Melt Spinning," <u>Metallurgical and Materials Transactions B</u> , 26B:1199-1208 (1995)
✓	18	G. Li and B. G. Thomas, "Transient Thermal Model Of The Continuous Single-Wheel Thin-Strip Casting Process," Proc. Int. Symp on Near-Net-Shape Casting in the Minimills, Vancouver, Canada August 19-23, 1995, Canadian Institute of Mining, Metallurgy, and Petroleum, Montreal, Canada, pp. 373-387 (1995).
✓	19	Ibaraki, "Planar Flow Melt-Spinning: Experimental Investigation On Solidification, Dynamics Of The Liquid Puddle And Process Operability," Master's Thesis, Cornell University (1996)

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DATE CONSIDERED

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 19603/3810 (CRF D-2693)	SERIAL NO. 10/072,404
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U	20	Li et al., "Transient Thermal Model of the Continuous Single-Wheel Casting of Thin Steel Strip," <u>Metallurgical and Materials Transactions B</u> , 27B:509-525 (1996)
	21	Carpenter et al., "Heat Transfer And Solidification In Planar-Flow Melt-Spinning: High Wheelspeeds, <u>International Journal of Heat Mass Transfer</u> , 40(9):1993-2007 (1997)
	22	Steen et al., "Fluid Mechanics Of Spin Casting," <u>Ann. Rev. Fluid Mechanics</u> , 29:373-397 (1997)
	23	Chen et al., "Modeling And Optimization Of Nozzle Design In Planar Flow Melt Spinning," <u>MED Manufacturing Science And Engineering (ASME)</u> , 10:79-85 (1999)
	24	Steen et al., "Contacting And Forming Singularities: Distinguishing Examples," <u>Chaos</u> , 9(1):164-172 (1999)
	25	Walranch et al., "The Early Stages In Aluminum Solidification In the Presence Of A Moving Meniscus," <u>Zabaras eds., The Integration Of Material, Process And Product Design</u> , Balkema, Rotterdam, pp. 183-191 (1999)
✓	26	Kuhn, "Unsteady Behavior Of The Planar Flow Spin-Casting Process," Master's Thesis, Cornell University p. 47 (2000)
U	27	Plaschko et al., "Stability Of Two-Dimensional Strip Casting Processes," <u>Physics of Fluids</u> , 12(6): 1319-1326 (2000)

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5	28	Karcher et al., "High-Reynolds-Number Flow In A Narrow Gap Driven By Solidification, I. Theory," <u>Physics of Fluids</u> , 13(4):826-833 (2001)
1	29	Karcher et al., "High-Reynolds-Number Flow In A Narrow Gap Driven By Solidification, II. Planar-Flow Casting Application," <u>Physics of Fluids</u> , 13(4):834-840 (2001)
	30	Reed, "Planar-Flow Spin Casting: Momentum Transport, Verticity Transport, And Texture Formation," PhD Thesis, Cornell University pp. 104-106 (2001)
✓	31	Reed et al., "Vorticity Transport In Solidification Boundary Layers," <u>J. Fluid Mech.</u> , 426:397-406 (2001)
5	32	Steen et al., "Solidification-Induced Secondary Flows In Spin Casting," Ehrhard eds., <u>Interactive Dynamics Of Convection And Solidification</u> , Kluwer Academic Publishers, Netherlands, pp. 145-153 (2001)
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